DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION



STEVE BULLOCK, GOVERNOR

FAX:

Telephone: (406) 563-6078 (406) 563-8255 ANACONDA UNIT OFFICE 1300 Maguire Road Anaconda, MT 59711

December 19, 2016

BLM - LaMarche Forest Health Project AP

ALTERNATIVE PRACTICE RESPONSIBILITY AFFIDAVIT

In consideration of DNRC's approval of the Alternative Practice in T2N, R13W, Sec. 22, I hereby certify that I, or by written contract the legal entity I represent, am responsible for the compliance with the Montana Streamside Management Zone Law. I understand that failure to implement any of the mitigation measures required by the DNRC will be considered a violation of the SMZ Law (77-5-301 et. Seq.), and may result in penalties assessed against me or the legal entity I represent.

Signature of Responsible Party

Date

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION



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STATE OF MONTANA

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Ref: BLM - LaMarche Forest Health Project AP

Dear Mr. O'Brien,

This letter is in reference to a request made by the Bureau of Land Management to the Montana Department of Natural Resources and Conservation for an Alternative Practice (AP). This AP is located in Section 22 of T2N, R13W in Deer Lodge County. After review of Environmental Assessment Checklist prepared for this request, the AP to allow equipment operations in the SMZ of LaMarche Creek is approved, subject to the following conditions:

- Operation of feller-buncher would be allowed inside the SMZ on LaMarche Creek up to 15 feet from the ordinary high water mark. Operation would be in a "straight in and straight out" manner as practical.
- 2) Buncher felled trees would be placed outside of the 50 foot buffer for skidding.
- All operator caused slash will be promptly removed from stream.
- 4) Operation would only occur during periods when ground disturbance can be minimized under conditions of:
 - a. Dry ground <20% moisture content
 - b. Frozen ground to a depth of four inches and/or snow covered to eight inches.
- 5) Small, un-infested lodgepole pine would be retained where possible. Other species of trees such as Douglas-fir, Engelmann spruce, quaking aspen and brush species, would be retained and protected from damage.
- Grass seeding of disturbed areas will take place after operations.

Approved AP's, including any additional conditions required by DNRC, shall have the same force and authority as the standards contained in 77-5-303, MCA, and shall be enforceable by DNRC under 77-5-305, MCA, to the same extent as such standards.

It is your responsibility to ensure that your operators understand that an AP has been issued for their operations in this area, and that these conditions must be fully met to achieve compliance with the SMZ Law.

This approval is contingent upon your execution and return of the attached statement to the DNRC Anaconda Unit Office.

Thank you for your cooperation in this matter. Please contact me if you have any questions.

Respectfully yours,

Sean Steinebach Service Forester

Cc: HRA file, Landowner, Applicant, Unit Office, Land Office, Service Forestry Bureau

CHECKLIST ENVIRONMENTAL ASSESSMENT

Project Name:

BLM LaMarche Creek Salvage

Proposed

Implementation Date:

Upon Signature

Proponent: Location:

Bureau of Land Management T2N R13W Sec 22 (see map)

County:

Deer Lodge

I. TYPE AND PURPOSE OF ACTION

The BLM is requesting a Streamside Management Zone (SMZ) Alternative Practice for approximately 0.5 miles of the 935 Forest Road (see attached map). This area has been significantly affected by mountain pine beetle in the lodgepole pine stands and this Alternative Practice would facilitate safe removal of dead and dying trees that would become a safety hazard near roads and recreational areas.

According to MCA 77-5-301 through 307, DNRC is authorized to administer and enforce the provisions of the SMZ Law. This Law was developed to protect the public interest of water quality and quantity within forested areas; provide for standards, oversights and penalties to ensure forest practices conserve the integrity of SMZ's; provide guidelines for wildlife management within SMZ's; and allow operators necessary flexibility to use practices appropriate to site-specific conditions in the SMZ. ARM 36.11.301 through 313 further specify the design of SMZ boundaries, allowable activities and prohibitions within the SMZ, penalties and other related provisions.

According to MCA 77-5-304 and ARM 36.11.310, DNRC may approve alternative practices that are different from practices required by the SMZ Law only if such practices would be otherwise lawful and continue to conserve or not significantly diminish the integrity and function of the SMZ. The proximity of the beetle infested trees to roads and recreation areas has created safety issues that may require treatments outside of the allowances of the SMZ law. Treatments would be limited to operation of a feller-buncher inside the 50 foot SMZ, but no closer than 15 feet to the ordinary high water mark (OHWM). These treatments would be conducted on slopes less than 15% and would allow removal of lodgepole pine to below minimum retention standards as identified under Rules 4 and 5 in the *Montana Guide to the Streamside Zone Law and Rules 2006* (ARM 36.11.310-313). Additional stipulations of this request would include:

- Operation of the feller-buncher inside the SMZ would be in a straight-in and straight-out manner to minimize disturbance inside the 50 foot boundary.
- Operation would only occur during periods when soil disturbance can be minimized under conditions of frozen ground to a depth of four inches, snow to a depth of eight inches, or periods when ground moisture is less than 20%.
- If operations take place during periods of dry ground conditions, mitigation measures would include grass seeding and slash filter windrows placed on disturbed areas to prevent run-off and sediment from reaching water.
- Felled trees would be placed outside of the 50 foot SMZ boundary for skidding.
- Small, un-infested lodgepole pine, in addition to other species of trees such as Douglas-fir, Engelmann spruce, quaking aspen and all brush species, would be retained and protected to the greatest extent possible.

This AP would be issued under this EA Checklist for a period of two years.

II. PROJECT DEVELOPMENT

1. PUBLIC INVOLVEMENT, AGENCIES, GROUPS OR INDIVIDUALS CONTACTED:

Provide a brief chronology of the scoping and ongoing involvement for this project.

MT DNRC and the USDI Bureau of Land Management.

2. OTHER GOVERNMENTAL AGENCIES WITH JURISDICTION, LIST OF PERMITS NEEDED:

N/A

3. ALTERNATIVES CONSIDERED:

Alternative A -No Action.

This alternative would not operate machinery inside the fifty foot buffer. Beetle-killed trees may be hand-felled to minimum retention standards, left standing or removed in a non-commercial manner, such as by an arborist. In instances when the trees are removed non-commercially, the DNRC has no jurisdiction over operations and excessive disturbance or increased risks to safety may occur.

Alternative B - Action.

SMZ Alternative Practice would be issued for beetle salvage on the LaMarche Salvage Project (see attached map). Please see *Type and Purpose of Action* for a full description of this alternative.

III. IMPACTS ON THE PHYSICAL ENVIRONMENT

- RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.
- Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.
- Enter "NONE" If no impacts are identified or the resource is not present.

4. GEOLOGY AND SOIL QUALITY, STABILITY AND MOISTURE:

Consider the presence of fragile, compactable or unstable soils. Identify unusual geologic features. Specify any special reclamation considerations. Identify any cumulative impacts to soils.

Alternative A - No Action

No equipment operation would be allowed inside the 50 foot SMZ. Minimum retention standards would be recognized. Trees would be hand-felled and skidded by cable through the SMZ. Felling and skidding may occur on various types of soils and on various degrees of slopes. Cable skidding each tree out of the SMZ would likely create more soil disturbance than a feller-buncher carrying multiple trees out of the SMZ for skidding.

Alternative B - Action

Equipment operation would be limited to soils that are described as "moderately or well suited" for timber harvest in the Web Soil Survey (see attached). Equipment operation would be limited to areas where slope is less than 15%. Mitigation measures would include operating season restrictions that require frozen ground to a depth of four inches, snow depth of eight inches or ground moisture of 20% or less. In addition, grass-seeding and installation of erosion control measures such as a slash-filter windrow on any disturbed area upon completion of activity would be required. Minimal direct, indirect or cumulative impacts to soil stability and compaction are anticipated due to the soil rating restrictions, operation restrictions and mitigation measures. See LaMarche Forest Health Project EA.

5. WATER QUALITY, QUANTITY AND DISTRIBUTION:

Identify important surface or groundwater resources. Consider the potential for violation of ambient water quality standards, drinking water maximum contaminant levels, or degradation of water quality. Identify cumulative effects to water resources.

Alternative A - No Action

AND AND BEET ALL AND BEET

No equipment operation would be allowed inside the 50 foot SMZ. Minimum retention standards would be recognized. Trees would be hand-felled and skidded by cable through the SMZ or left standing. Hand-felling operations may introduce low levels of sediment delivery to adjacent waterbodies. Sedimentation delivery from existing roads, other land treatments and developments would continue. Minimal direct, indirect, and cumulative impacts to water quality and quantity would be expected.

Alternative B - Action

The harvest of trees within the first 35 feet of the SMZ may introduce low levels of sediment delivery to adjacent waterbodies. However, the 15 foot equipment exclusion zone would be expected to provide adequate filtration for any displaced soils or increased runoff due to compacted soils in the 15 to 50 foot AP zone. Increases in sedimentation would be expected to be minimal and temporary due to operations only occurring on slopes less than 15% and application of mitigation measures. Mitigation measures include imposing seasonal operating restrictions that require frozen ground to a depth of four inches, snow depth of eight inches or ground moisture of 20% or less; and requiring grass seeding and installation of erosion control measures such as a slash-filter windrow on any disturbed area upon completion of operations. DNRC may monitor AP site to verify effectiveness. Minimal direct, indirect, and cumulative impacts to water quality and quantity are expected due to operation restrictions and mitigation measures. See LaMarche Forest Health Project EA.

6. AIR QUALITY:

What pollutants or particulate would be produced? Identify air quality regulations or zones (e.g. Class I air shed) the project would influence. Identify cumulative effects to air quality.

N/A

7. VEGETATION COVER, QUANTITY AND QUALITY:

What changes would the action cause to vegetative communities? Consider rare plants or cover types that would be affected. Identify cumulative effects to vegetation.

Alternative A - No Action

If no action is taken the dead trees will fall over, potentially causing damage to improvements and people. Trees may be hand-felled to minimum retention standards, but it would be expected that as retention trees fell the landowner would remove them anyway. Hand-felling and skidding hand-felled trees have the potential to be more damaging to the residual stand than the directional felling of a feller buncher. This is due to trees being pulled through the residual stand with less maneuverability, potentially removing bark and pulling over the residual stand.

Alternative B - Action

A query of the Montana Natural Heritage Program shows Lemhi beardtongue as a Species of Concern for T2N, R13W. No occurrence of Lemhi beardtongue has been noted in the AP area. Vegetative communities would be affected to the extent that lodgepole pine would be reduced to below minimum retention standards as outlined in Rule 5 of the Montana Guide to the Streamside Management Zone Law and Rules handbook. Other species of trees such as Douglas-fir, Engelmann spruce and quaking aspen would be retained where present and understory vegetation would be protected to the greatest extent possible. Removal of the dead trees would expedite natural regeneration and cumulative effects to vegetative communities would decrease as trees regenerate and replace those that are harvested. See LaMarche Forest Health Project EA.

8. TERRESTRIAL, AVIAN AND AQUATIC LIFE AND HABITATS:

Consider substantial habitat values and use of the area by wildlife, birds or fish. Identify cumulative effects to fish and wildlife.

Alternative A - No Action

Minimum retention standards would be adhered to as well as equipment restrictions. Due to the area being heavily used for recreation and its proximity to roads and cabins, the suitability of the proposed site would continue to be marginal at best for terrestrial and avian habitat. Dead lodgepole pine would eventually fall over and/or be removed in a non-commercial manner.

Alternative B - Action

Due to the area being heavily used for recreation and its proximity to roads and cabins, the suitability of the proposed site would continue to be marginal at best for terrestrial and avian habitat. Operating restrictions and mitigation measures would minimize sedimentation impacts to fish habitat where present. In areas of pure lodgepole pine stands, shading of LaMarche Creek would be reduced and peak seasonal stream temperatures may see an increase in July and August. All other species of trees and brush would be retained and protected to the greatest extent possible. Cumulative impacts would be expected to be short term. See LaMarche Forest Health Project EA.

9. UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES:

Consider any federally listed threatened or endangered species or habitat identified in the project area. Determine effects to wetlands. Consider Sensitive Species or Species of special concern. Identify cumulative effects to these species and their habitat.

Alternative A - No Action

A query of the Montana Natural Heritage Program identifies the area as being possible habitat for fringed myotis, hoary bat, wolverine, northern goshawk, great blue heron, Clark's nutcracker, great grey owl, westslope cutthroat trout, arctic grayling, Gillette's checkerspot and fisher (see attached). Under Alternative A, equipment restrictions would be adhered to as outlined in the SMZ Law.

Minimum retention standards would be adhered to as well as equipment restrictions. Dead lodgepole pine would eventually fall over and/or be removed in a non-commercial manner. Direct, indirect and cumulative effects would not be influenced by the AP.

Alternative B - Action

Proposed actions may cause slight shifts in use by listed species of concern, however, no key habitat components are known to exist in the proposed AP project area and is not expected to appreciably change. If a sighting of any of the listed species of concern (or evidence such as nests, dens etc...) occurs, operations would be halted until, or not allowed, until further assessment could take place. Due to operating restrictions and mitigation measures outlined under Type and Purpose of Action, a low risk of direct, indirect and cumulative effects to listed species of concern would be expected with the action alternative. See LaMarche Forest Health Project EA.

10. HISTORICAL AND ARCHAEOLOGICAL SITES:

Identify and determine effects to historical, archaeological or paleontological resources.

Although no cultural or paleontologic resources are known to exist in the project APE, a systematic inventory of such resources has not occurred. Because the project is not located on state land, the DNRC has no jurisdiction to require professional level inventories to identify, or develop treatment plans for these National Register eligible properties. See LaMarche Forest Health Project EA.

11. AESTHETICS:

Determine if the project is located on a prominent topographic feature, or may be visible from populated or scenic areas. What level of noise, light or visual change would be produced? Identify cumulative effects to aesthetics.

Alternative A - No Action

Minimum retention standards would be adhered to as well as equipment restrictions. Dead lodgepole pine would eventually fall over and/or be removed in a non-commercial manner. Aesthetics would be degraded as green trees transitioned to red and eventually fell over.

Alternative B - Action

Potential impacts may be perceived as adverse by recreationists, landowners and travelers. The removal of beetle killed lodgepole pine would look unsightly in the short term, but would encourage regeneration. This regeneration would eventually soften and replace aesthetic quality damaged by mountain pine beetle infestation. See LaMarche Forest Health Project EA.

12. DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AIR OR ENERGY:

Determine the amount of limited resources the project would require. Identify other activities nearby that the project would affect. Identify cumulative effects to environmental resources.

N/A

13. OTHER ENVIRONMENTAL DOCUMENTS PERTINENT TO THE AREA:

List other studies, plans or projects on this tract. Determine cumulative impacts likely to occur as a result of current private, state or federal actions in the analysis area, and from future proposed state actions in the analysis area that are under MEPA review (scoped) or permitting review by any state agency.

There have been six SMZ AP's issued in the last two years in this area. All of them have required similar operating restrictions and mitigation measures and have proved beneficial with minimal impacts.

IV. IMPACTS ON THE HUMAN POPULATION

- RESOURCES potentially impacted are listed on the form, followed by common issues that would be considered.
- Explain POTENTIAL IMPACTS AND MITIGATIONS following each resource heading.
- Enter "NONE" If no impacts are identified or the resource is not present.

14. HUMAN HEALTH AND SAFETY:

Identify any health and safety risks posed by the project.

Travel ways and recreational sites would become unsafe as beetle killed trees begin to fall. The removal of beetle killed tree would improve safety to those that use the area for recreation.

15. INDUSTRIAL, COMMERCIAL AND AGRICULTURE ACTIVITIES AND PRODUCTION:

Identify how the project would add to or alter these activities.

N/A

16. QUANTITY AND DISTRIBUTION OF EMPLOYMENT:

Estimate the number of jobs the project would create, move or eliminate. Identify cumulative effects to the employment market.

Project would be allowed for a period of two years. Harvest of trees in the AP area may generate 10 mbf and would employ one logging crew over the entire area. In addition this project would provide raw material for local mill operations.

17. LOCAL AND STATE TAX BASE AND TAX REVENUES:

Estimate tax revenue the project would create or eliminate. Identify cumulative effects to taxes and revenue.

Negligible amounts.

18. DEMAND FOR GOVERNMENT SERVICES:

Estimate increases in traffic and changes to traffic patterns. What changes would be needed to fire protection, police, schools, etc.? Identify cumulative effects of this and other projects on government services

N/A

19. LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS:

List State, County, City, USFS, BLM, Tribal, and other zoning or management plans, and identify how they would affect this project.

This Alternative Practice would allow timber salvage in an area considered at high risk for wildfire under the Deer Lodge County Community Wildfire Protection Plans.

20	Identify any wilderne	ess or recre	ational areas nearby or access r	WILDERNESS ACTIVITIES: outes through this tract. Determine the effects of the tive effects to recreational and wilderness activities.
N/.			ŕ	
21			ION OF POPULATION AND nd additional housing the project	HOUSING: would require. Identify cumulative effects to population
N/	Δ			
22 N//			ID MORES: ative or traditional lifestyles or co	ommunities.
		NIENIECC	AND DIVEDOITY	
23	CULTURAL UNIC How would the actio		AND DIVERSITY: unique quality of the area?	
N/		,	, . ,,	
	Estimate the return t area other than exist proposed action.	o the trust.	CIAL AND ECONOMIC CIRC Include appropriate economic ar ement. Identify cumulative econo	CUMSTANCES: nalysis. Identify potential future uses for the analysis mic and social effects likely to occur as a result of the
N/A	\			
	EA Checklist	Name:	Sean Steinebach	Date: 12/19/16
	Prepared By:	Title:	Service Forester	
	-		V. FINDING	G
25.	ALTERNATIVE SE	ELECTED		
4lte	ernative B - Action			
26.	SIGNIFICANCE O	F POTEN	TIAL IMPACTS:	
Vο	significant impacts	to the inte	grity and function of the SMZ	will occur with the implementation of operating
	trictions and mitigat			
27,	NEED FOR FURT	HER ENV	RONMENTAL ANALYSIS:	
_	EIS		More Detailed EA	X No Further Analysis
Ì	EA Checklist	Name:	Brian Robbins	
	Approved By:	Title:	Anaconda Unit Manager	
	Signature: B	n 872	-RQ	Date: 12-19-2016

Forestland Planting and Harvesting

This table can help forestland owners or managers plan the use of soils for wood crops. Interpretive ratings are given for the soils according to the limitations that affect planting and harvesting on forestland. The ratings are both verbal and numerical.

Rating class terms indicate the degree to which the soils are suited to a specified aspect of forestland management. Well suited indicates that the soil has features that are favorable for the specified management aspect and has no limitations. Good performance can be expected, and little or no maintenance is needed. Moderately suited indicates that the soil has features that are moderately favorable for the specified management aspect. One or more soil properties are less than desirable, and fair performance can be expected. Some maintenance is needed. Poorly suited indicates that the soil has one or more properties that are unfavorable for the specified management aspect. Overcoming the unfavorable properties requires special design, extra maintenance, and costly alteration. Unsuited indicates that the expected performance of the soil is unacceptable for the specified management aspect or that extreme measures are needed to overcome the undesirable soil properties.

Numerical ratings in the table indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the specified aspect of forestland management (1.00) and the point at which the soil feature is not a limitation (0.00).

The paragraphs that follow indicate the soil properties considered in rating the soils. More detailed information about the criteria used in the ratings is available in the "National Forestry Manual," which is available in local offices of the Natural Resources Conservation Service or on the Internet.

Ratings in the columns suitability for hand planting and suitability for mechanical planting are based on slope, depth to a restrictive layer, content of sand, plasticity index, rock fragments on or below the surface, depth to a water table, and ponding. The soils are described as well suited, moderately suited, poorly suited, or unsuited to these methods of planting. It is assumed that necessary site preparation is completed before seedlings are planted.

Ratings in the column *suitability for use of harvesting equipment* are based on slope, rock fragments on the surface, plasticity index, content of sand, the Unified classification, depth to a water table, and ponding. The soils are described as well suited, moderately suited, or poorly suited to this use.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service, National forestry manual.

Report—Forestland Planting and Harvesting

[Onsite investigation may be needed to validate the interpretations in this table and to confirm the identity of the soil on a given site. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the potential limitation. The table shows only the top five limitations for any given soil. The soil may have additional limitations]

	Forestia	nd Planting and Harve	sting-Be	averhead National Fo	rest Area	, Montana		
Map symbol and soil name	Pct. of map unit	The state of the s		Suitability for us harvesting equip	se of	Suitability for mechanical planting		
	Gille.	Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
682E—Elve bouldery sandy loam, 4 to 25 percent slopes								
Elve	85	Well suited	<u> </u>	Well suited		Moderately suited		
						Slope	0.50	
						Rock fragments	0.50	
54C—Libeg gravelly loam, 4 to 8 percent slopes								
Libeg	85	Well suited		Well suited		Moderately suited	1	
				Dusty	0.01	Slope	0.50	
54E—Libeg gravelly loam, 15 to 35 percent slopes								
Libeg	85	Well suited		Moderately suited		Poorly suited		
				Slope	0.50	Slope	0.75	
				Dusty	0.01			
96D—Worock gravelly loam, 4 to 15 percent slopes								
Worock	85	Well suited		Moderately suited		Moderately suited	 	
				Low strength	0.50		0.50	
				Dusty	0.01	Rock fragments	0.50	

Map symbol and soil	Pct. of	Suitability for hand	Suitability for hand planting		e of	Suitability for mechanical		
name	map unit			Suitability for us harvesting equip		planting		
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
682E—Elve bouldery sandy loam, 4 to 25 percent slopes			The state of the s					
Elve	85	Well suited		Well suited	A. C.	Moderately suited		
						Slope	0.50	
			1			Rock fragments	0.50	
54C—Libeg gravelly loam, 4 to 8 percent slopes								
Libeg	85	Well suited		Well suited		Moderately suited		
				Dusty	0.01	Slope	0.50	
54D—Libeg gravelly loam, 8 to 15 percent slopes								
Libeg	85	Well suited		Well suited		Moderately suited		
				Dusty	0.01	Slope	0.50	
54E—Libeg gravelly loam, 15 to 35 percent slopes			- A		The contract of the contract o			
Libeg	85	Well suited		Moderately suited		Poorly suited		
				Slope	0.50	Slope	0.75	
				Dusty	0.01			
96D—Worock gravelly loam, 4 to 15 percent slopes								
Worock	85	Well suited		Moderately suited		Moderately suited		
				Low strength	0.50	Slope	0.50	
				Dusty	0.01	Rock fragments	0.50	
145E—Redchief- Mollet complex, 15 to 35 percent slopes								
Redchief	50	Moderately suited		Moderately suited		Poorly suited		
		Stickiness; high plasticity index	0.50	Low strength	0,50	Slope	0.75	
				Slope	0.50	Stickiness; high plasticity index	0.50	
				Dusty	0.04	Rock fragments	0.50	

	Fore	estland Planting and H	arvesting	j-Deer Lodge County	Area, Mo	ntana		
Map symbol and soil name	Pct. of map unit	Suitability for hand I	olanting	Suitability for us harvesting equip		Suitability for mechanical planting		
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value	
245D—Redchief- Mollet bouldery loams, 4 to 15 percent slopes								
Redchief	50	Moderately suited		Well suited		Moderately suited		
		Stickiness; high plasticity index	0.50	Dusty	0.03	Rock fragments	0.50	
						Slope	0.50	
						Stickiness; high plasticity index	0.50	
145E—Redchief- Mollet complex, 15 to 35 percent slopes								
Mollet	35	Moderately suited		Moderately suited	<u> </u>	Poorly suited		
		Stickiness; high plasticity index	0.50	Low strength	0.50	Slope	0.75	
				Slope	0.50	Stickiness; high plasticity index	0.50	
				Dusty	0.01			
245D—Redchief- Mollet bouldery loams, 4 to 15 percent slopes	· ·						TOTAL TRANSPORTER TO A TOTAL TO A	
Mollet	35	Moderately suited		Moderately suited		Poorly suited		
		Rock fragments	0.50	Low strength	0,50	Rock fragments	0.75	
				Dusty	0.01	Slope	0.50	

Data Source Information

Soil Survey Area: Beaverhead National Forest Area, Montana

Survey Area Data: Version 18, Sep 19, 2016

Soil Survey Area: Deer Lodge County Area, Montana

Survey Area Data: Version 14, Sep 28, 2015

Montana Natural Heritage - SOC Report

Animal Species of Concerns: 11 Species of Concern Filtered by the following criteria: Township = 002N013W (based on mapped Species Occurrences)

Expand All | Collapse All

Introduction

Species of Concern



A program of the Montana State Library's Natural Resource Information System operated by the University of Montana.

11 Species Filtered by the follo Township = 002N013	ONCERN Wing criteria: W (based on mapped Sj	pecies Occurr	ences)							
MAMMALS (MAN			· · · · · · · · · · · · · · · · · · ·							4 SPECI
SCIENTIFIC NAME							TOW			oopped Species Occurrenc
COMMON HAME TAXA SORT	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFWS	USFS	BLM	FWP SWAP	% OF GLOBAL BREEDING RANGE IN MT	% OF MT THAT IS BREEDING RANGE	HABITAT
Gulo gulo Wolverine	Mustelidae	G4	53	P	SENSITIVE	SENSITIVE	\$GCN3	0%	37%	Boreal Forest and
worverme	Weasels	Species Occi	rrences verifie	d in these Cour	lies: Egaverhead, f	rpadwater, Carbon.	Fascada, Door Lodo	a Flathand Galla	tio Glacian Gran	Alpine Habitats ite, Jefferson, Judith
		Basin, Lake. Wheatland	Lewis and Clark,	Lincoln, Madisc	in, Meagher. Minera	i. Missoula. Park, Po	ndera, Powell, Rava	III, Sanders, Silver	Bow, Stillwater,	Sweet Grass, Teton.
asiurus cinereus	Vespertilionidae	G3G4	S3	T		L	SGCN3	2%	100%	Riparian and fores
Hoary Bat	Bats	Madison, Mcc	o, rergus, rtatne one, Meagher, M	ad, Gallatin, Ga Iineral, Miszoula	rrield, Glacier, Gel L. Musselshell, Park	ien Valley, Granite, Petroleum, Phillips	Harding, Hill, Jeffer	son, Judith Basin, Was Powell Pents	lake Lewis and I	aniels, Dawson, Ocer Clark, Liberty, Lincoln, and, Roosevelt, Rosebud
Myotis thysanodes Fringed Myotis	Vespertilionidae Bats	G4	53			SENSITIVE	SGCN3	0%	64%	Riparian and dry mix conifer forests
		Joaniann, Gra	nice, Jellerson,	d in these Coun Judith Basin, La	ties: Beaverhead, E ke. Lewis and Clark	íg Horn. Blaine, Bro Lincoln, Madíson, /	adwater, Carbon, Ca Jeagher, Mineral, Mi	rter, Cascade, Cus ssoula, Powder Riv	ster, Dear Lodge, rer. Powell, Prair	Fergus, Flathead, ie. Ravalli, Sanders. Silv
ekania pennanti	Mustelidae	Bow, Teton, ' G5	reasure S3	1	SENSITIVE	SENSITIVE	SGCN3	1%	31%	Mixed conifer forest
Fisher	Weasels	Species Occu	rrences verifie	in these Coun	ties: Beaverhead, D	eer Lodge, Flatheac	. Glacier, Granite, L	ake. Levris and Cla	ark, Lincoln, Mine	ral, Missoula, Pondera,
BIRDS (AVES)	<u> </u>	prowen, navai	li, Sanders, Teto	on.	***************************************		TOW	NSHIP = NOSNO1	W sharadan m	4 SPECIE
SCIENTIFIC NAME									% OF MT THAT	opped species decurrent
COMMON NAME TAXA SORT	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL	STATE	ALC: THE				BREEDING	IS BREEDING	
ccipiter gentilis	Accipitridae	RANK G5	RANK T 53	USFWS	USFS	BLM	FWP SWAP	RANGE IN MT	RANGE	HABITAT
Northern Goshawk	Hawks / Kites /	Species Occu	rrences verified	in these Coun	l	le Horn, Broadwater	SGCN3 Carbon, Carter, Ca	zcade. Deer Lodge	68% Ferrus, Flathea	Mixed conifer fores
	Eagles	Granite, Jeffe	ercon. Judith Bas	in Laka Laude						ar valuation official.
	Ardeidae	Danielli Brank		m, care, coms	and Clark, Liberty,	Lincoln, Madison, M	eagher, Mineral, Mis	soula, Park, Petrol	leum, Pondera, Po	owder River, Powell.
	Ardeidae Bitterns / Forets /	G5	53	er bow, stitliva	ter. Sweet Grass, 1	Lincoln, Madison, M eton, Wheatland	eagher, Mineral, Mis	soula, Park, Petrol	100%	Riparian forest
Great Blue Heron	Ardeidae Bitterns / Egrets / Herons / Night-Herons	G5 Species Occu Fallon, Fergus Mccone. McKe Sanders, Sher	53 rrences verified , Flathead, Gall enzie, Meagher, idan, Silver Bow.	I in these Count atin, Garfield, C Mineral, Missoul Stillwater, Swe	ter, Sweet Grass, I ties: Beaverhead, B Blacier, Golden Vali a, Musselshell, Park set Grass, Teton, Tr	Lincoln, Madison, M ston, Wheatland g Horn, Blaine, Groc ey, Granite, Harding Petroleum, Phillip easure, Valley, Whe	SGCN3 dwater, Carbon, Ca. Hill, Jefferson, Jus. Pondera, Powder F	3% rter, Cascade, Cho Jith Basin, Lake, Li Kiver, Powell, Prak	100% outeau. Custer. Dr ewis and Clark, Li rie. Ravalli, Richl	Riparian forest awson, Deer Lodge, iberty, Lincoln, Madisor and, Roosevelt, Rosebu
Great Blue Heron	Bitterns / Egrets / Herons / Night-Herons Corvidae	G5 Species Occu Falton, Fergur Mccone. McKe Sanders. Sher State Rank Re and grezing.	53 rrences verified , Flathead, Gall , Flathead, Gall , Silver Bow, eason: Small bre	I in these Count atin, Garfield. C Mineral, Missoul Stillwater, Swe eding populatio	ter, Sweet Grass, I bles: Beaverhead, B Blacier, Golden Vall a, Musselshell, Park ret Grass, Teton, Tr n size, evidence of	Lincoln, Madison, Metion, Wheatland g Horn, Blaine, Broz ey, Granite, Harding Petroleum, Philip easure, Valley, Whe recent declines, and	aagher, Mineral, Mis SGCN3 dwater, Carbon, Ca. Hill, Jefferson, Jus. Pondera, Powder F atland. Wibaux, Yell declining regeneral	2001a, Park, Petrol 2% rter, Cascade, Cho dith Basin, Lake, Li liver, Powell, Prai owstone lon of riparian cot	100% outeau. Custer. Do ewis and Clark, Li rie. Ravalli, Richi tonwood forests o	Riparian forest awson, Deer Lodge, liberty, Lincoln, Madison and, Roosevelt, Rosebu due to altered hydrolog
urdea herodias Great Blue Heron Jucifraga Olumbiana Clark's Nutcracker	Bitterns / Egrets / Herons / Night-Herons	G5 Species Occu Fallon, Fergur Mccone. McKe Sanders. Sher State Rank Re and grazing. G5 Species Occu Gallatin, Glac	S3 rrences verified r, Flathead, Gall enzie. Meagher, i (dan, Silver Bow, eason: Small bre S3 rrences verified ier, Golden Valke	I in these Count atin, Garfield, C Mineral, Missoul Stillwater, 5we eding populatio L in these Count ey, Granite, Jeff	ter. Sweet Grass. I lies: Beaverhead. B Blacier. Golden Vall a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B ferson, Juditi Basin	Lincoln, Madison. Meton, Wheatland Jig Horn, Blaine, Bro; ge Horn, Blaine, Bro; Petroleum, Phillipeasure, Valley, Whe eccent declines, and Jig Horn, Diaine, Bro; Lake, Lewis and Cl	aggher, Mineral, Mis- SGCN3 dwoter, Carbon, Ca Hill, Jefferson, Jus S, Pandera, Powder I atland. Wibaus, Yell declining regenerat SGCN3 dwater, Carbon, Ca ant, Liberty, Lincoln	zoula, Park, Petrol 3% rter, Cascade, Che fith Basin, Lake, Le tiver, Powell, Prai owstone fon of riparian cot 9% ter, Cascade, Che Madizan, Meavine	100% suteau. Custer. Di evis and Clark, Li rie. Ravalli, Richl tonwood forests of suteau. Deer Lodge er. Mineral. Misson	Riparian forest awson, Deer Lodge, iberty, Lincoln, Madison and, Roosevelt, Rosebu due to aftered hydrolog
Great Blue Heron Jucifraga olumbiana Clark's Nutcracker trix nebulosa	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies Strigidae	G5 Species Occu Fallon, Fergur Mccone. McKe Sanders. Sher State Rank Re and grazing. G5 Species Occu Gallatin, Glac	S3 rrences verified r, Flathead, Gall enzie. Meagher, i (dan, Silver Bow, eason: Small bre S3 rrences verified ier, Golden Valke	I in these Count atin, Garfield, C Mineral, Missoul Stillwater, 5we eding populatio L in these Count ey, Granite, Jeff	ter. Sweet Grass. I lies: Beaverhead. B Blacier. Golden Vall a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B ferson, Juditi Basin	Lincoln, Madison. Meton, Wheatland Jig Horn, Blaine, Bro; ge Horn, Blaine, Bro; Petroleum, Phillipeasure, Valley, Whe eccent declines, and Jig Horn, Diaine, Bro; Lake, Lewis and Cl	sagher, Mineral, Mis- SGCN3	zoula, Park, Petrol 3% rter, Cascade, Che fith Basin, Lake, Le tiver, Powell, Prai owstone fon of riparian cot 9% ter, Cascade, Che Madizan, Meavine	100% suteau. Custer. Di evis and Clark, Li rie. Ravalli, Richl tonwood forests of suteau. Deer Lodge er. Mineral. Misson	Riparian forest awson, Deer Lodge, liberty, Lincoln, Anadison, and, Roosevalt, Rosebu due to altered hydrolog Conifer forest e, Forgus, Flathend, ula, Musselshell, Park,
Great Blue Heron ucifraga olumbiana Clark's Nutcracker trix nebulosa	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies	G5 Species Occu Falton, Fergur Mccone. McKe Sanders, Sher State Rank Re and grazing, G5 Species Occu Gallatin, Glac Petroleum, Pl G5	sancers: Sill Sarrences verified. Flothead, Gall. Incle. Meagher; iddan, Silver Bow. Increase Small bre Sarrences verified ier, Golden Valte Illips, Pondera. Sal	Lin these Countatin, Garfield. C wineral, Missoul, Stillwater, Swe eding populatio	ter. Sweet Grass. I	Lincoln, Madison. Meeton, Wheatland g Horn, Blaine. Dro: y, Granke. Harding Petroleum, Philip easure, Valley. Whe eccent declines. anc g Horn. Dlaine, Broo. Lake, Lewis and Cl ets, Silver Bov., Stil SENSITIVE	sagher, Mineral, Mis- SGCN3 dwater, Carbon, Ca, Hill, Jafferson, Jus. Pondera, Powder r ddeclining regenerat declining regenerat SGCN3 dwater, Carbon, Cai ank, Liberty, Linderty, SGCN3, SGIN	coula, Park, Petrol 3% rter, Cascade, Che dith Basin, Lake, Le tiver, Powell, Prai owstone ion of riparian cot 9% ter, Cascade, Che , Maddian, Reaghe, Teton, Toole, Wi 2%	100% suteau. Custer. Di ewis and Clark, Li rie. Ravalli, Richi tonwood forests of 84% suteau, Deer Lodg er. Mineral, Missot eatland 46%	Riparian forest awson, Deer Lodge, liberty, Lincoln, Anadiso, and, Roosevelt, Rosebu due to altered hydrolog Conifer forest te, Foregus, Flathead, ala, Mussetshell, Park, Conifer forest near
Great Blue Heron ucifraga olumbiana clark's Nutcracker trix nebulosa Great Gray Owl	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies Strigidae Owls	G5 Species Occu Falton, Fergu Mccone. McKe Sanders. Sher State Rank R and grazing. G5 Species Occu Gallatín, Glac Petroleum. Pi G5 Species Occu	S3 S3 Frences verified, Flathead, Gall Indie, Meagher, iddan, Silver Baw, tassen: Small bre S3 Frences verified ter, Golden Valke tillfips, Pondera. S3 Frences verified valke tillfips, Pondera.	In these Countain, Sariald. Countain, Sariald. Countain, Stillwater, Sweeding population in these Countain these Countain Powder River, P	ter. Sweet Grass. I	Lincoln, Madison. Melon, Wheatland g Horn, Blaine, Brot- g Horn, Blaine, Brot- g Horn, Blaine, Petroleum, Philip easure, Valley, Whe recent declines, and g Horn, Dlaine, Brot- Lake, Lewis and CL est, Silver Bow, Stil SENSITIVE arbon, Deer Lodge, 1	agher, Mineral, Mis- SGCN3 dwater, Carbon, Ca , Hill, Jeffesson, Jus , Pondera, Powder F declining regeneral SGCN3 dwater, Carbon, Ca ark, Liberty, Lincoln vater, Sweet Grass SGCN3, SGIN	coula, Park, Petrol 3% rter, Cascade, Che dith Basin, Lake, Le tiver, Powell, Prai owstone ion of riparian cot 9% ter, Cascade, Che , Maddian, Reaghe, Teton, Toole, Wi 2%	100% suteau. Custer. Di ewis and Clark, Li rie. Ravalli, Richi tonwood forests of 84% suteau, Deer Lodg er. Mineral, Missot eatland 46%	Riparian forest awson, Deer Lodge, liberty, Lincoln, Anadisor, and, Roosevelt, Rosebu due to altered hydrolog Conifer forest e, Foregus, Flathead, ala, Musselshell, Park, Conifer forest near
Great Blue Heron Jucifraga olumbiana Clark's Nutcracker trix nebulosa Great Gray Owl	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies Strigidae Owls	G5 Species Occu Falton, Fergu Mccone. McKe Sanders. Sher State Rank R and grazing. G5 Species Occu Gallatín, Glac Petroleum. Pi G5 Species Occu	S3 S3 Frences verified, Flathead, Gall Indie, Meagher, iddan, Silver Baw, tassen: Small bre S3 Frences verified ter, Golden Valke tillfips, Pondera. S3 Frences verified valke tillfips, Pondera.	In these Countain, Sariald. Countain, Sariald. Countain, Stillwater, Sweeding population in these Countain these Countain Powder River, P	ter. Sweet Grass. It lies: Beaverhead, B liacier, Golden Valt a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B lerson, Judith Basin owell, Ravalli, San.	Lincoln, Madison. Melon, Wheatland g Horn, Blaine, Brot- g Horn, Blaine, Brot- g Horn, Blaine, Petroleum, Philip easure, Valley, Whe recent declines, and g Horn, Dlaine, Brot- Lake, Lewis and CL est, Silver Bow, Stil SENSITIVE arbon, Deer Lodge, 1	agher, Mineral, Mis- SGCN3 dwater, Carbon, Ca. I. Hill, Jefferson, Juc. S. Pondera, Powder F atland, Wibaux, Yell declining regenerat idectining regenerat Company Carbon, Cal ark, Liberty, Lincoln twater, Sweet Grass SGCN3, SGIN lathead, Gallatin, Coestland	coula, Park, Petrol 3% rter, Cascade, Cho dith Basin, Lale, Lt tiver, Powell, Prai ovstone lon of riparian cot 9% rter, Cascade, Cho Madison, Meaghe Teton, Toole, Wi 2% cranite, Jefferson,	100% outeau. Custer, Dr. cwis and Clark, Li rie. Ravalli, Richl tonwood forests of 84% buteau, Deer Lodg rr. Mineral, Missor eatland 46% Judith Basin, Lak	Riparian forest awan, Deer Lodge, liberty, Lincoln, Anadisor and, Roosevelt, Rosebu due to altered hydrolog Conifer forest e, Fergus, Flathead, ula, Mussethell, Park, Conifer forest near open meadows e, Lewis and Clark.
Great Blue Heron Jucifraga olumbiana Clarks Nutcracker trix nebulosa Great Gray Owl	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies Strigidae Owls	G5 Species Occu Falton, Fergu Mccone. McKe Sanders. Sher State Rank R and grazing. G5 Species Occu Gallatín, Glac Petroleum. Pi G5 Species Occu	S3 S3 Frences verified, Flathead, Gall Indie, Meagher, iddan, Silver Baw, tassen: Small bre S3 Frences verified tier, Golden Valke tillips, Pondera. S3 Frences verified valke tillips, Pondera.	In these Countain, Sariald. Countain, Sariald. Countain, Stillwater, Sweeding population in these Countain these Countain Powder River, P	ter. Sweet Grass. It lies: Beaverhead, B liacier, Golden Valt a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B lerson, Judith Basin owell, Ravalli, San.	Lincoln, Madison. Melon, Wheatland g Horn, Blaine, Brot- g Horn, Blaine, Brot- g Horn, Blaine, Petroleum, Philip easure, Valley, Whe recent declines, and g Horn, Dlaine, Brot- Lake, Lewis and CL est, Silver Bow, Stil SENSITIVE arbon, Deer Lodge, 1	agher, Mineral, Mis- SGCN3 dwater, Carbon, Ca. I. Hill, Jefferson, Juc. S. Pondera, Powder F atland, Wibaux, Yell declining regenerat idectining regenerat Company Carbon, Cal ark, Liberty, Lincoln twater, Sweet Grass SGCN3, SGIN lathead, Gallatin, Coestland	coula, Park, Petrol 3% tter, Cascade, Che fish Basin, Lake, Li tiver, Powell, Prai owstone fon of riparian cot 9% ter, Cascade, Che , Madizan, Meaghe , Teton, Toole, WI 2% cranite, Jefferson,	100% outeau. Custer, Dr. ewis and Clark, Li rie. Ravalli, Richl tonwood forests o 84% 84% buteau, Deer Lodg rr. Mineral, Missor egatland 46% Judith Basin, Lak	Riparian forest awan, Deer Lodge, liberty, Lincoln, Madiso, and, Roosevelt, Rosebu dive to altered hydrolog Conifer forest e, Fergus, Flathead, ula, Mussethell, Park, Conifer forest nea open meadows e, Lewis and Clark.
Ucifraga olumbiana Clark's Nutcracker trix nebulosa Great Gray Owl FISH (ACTINOPT) CLENTIFIC NAME COMMON NAME	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Magpies Strigidae Owls ER YGII)	G5 Species Occu Falton, Fergu Mccone. McKe Sanders. Sher State Rank R and grazing. G5 Species Occu Gallatín, Glac Petroleum. Pi G5 Species Occu	S3 S3 Frences verified, Flathead, Gall Indie, Meagher, iddan, Silver Baw, tassen: Small bre S3 Frences verified tier, Golden Valke tillips, Pondera. S3 Frences verified valke tillips, Pondera.	In these Countain, Sariald. Countain, Sariald. Countain, Stillwater, Sweeding population in these Countain these Countain Powder River, P	ter. Sweet Grass. It lies: Beaverhead, B liacier, Golden Valt a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B lerson, Judith Basin owell, Ravalli, San.	Lincoln, Madison. Melon, Wheatland g Horn, Blaine, Brot- g Horn, Blaine, Brot- g Horn, Blaine, Petroleum, Philip easure, Valley, Whe recent declines, and g Horn, Dlaine, Brot- Lake, Lewis and CL est, Silver Bow, Stil SENSITIVE arbon, Deer Lodge, 1	agher, Mineral, Mis- SGCN3 dwater, Carbon, Ca. I. Hill, Jefferson, Juc. S. Pondera, Powder F atland, Wibaux, Yell declining regenerat idectining regenerat Company Carbon, Cal ark, Liberty, Lincoln twater, Sweet Grass SGCN3, SGIN lathead, Gallatin, Coestland	coula, Park, Petrol 3% rter, Cascade, Cha ith Basin, Lale. Li tiver, Powell, Prai ovistona ion of riparian cot ion of riparian cot y ter. Cascade. Cha y, Madisan, Meaghe Teton, Toole, W 2% rranite, Jefferson, ISHIP = 002N013 % OF GLOBAL	100% Duteau. Custer, Drewis and Clark, Lirie, Ravalli, Richi tonwood forests of B4% Duteau, Deer Lodg rr, Mirsot Leatiand 46% Judith Basin, Lak	Riparian forest awan, Deer Lodge, liberty, Lincoln, Anadisor and, Roosevelt, Rosebu due to altered hydrolog Conifer forest e, Fergus, Flathead, ula, Mussethell, Park, Conifer forest near open meadows e, Lewis and Clark.
Great Blue Heron Jucifraga olumbiana Clark's Nutcracker trix nebulosa Great Gray Owl GENTIFIC NAME COMMON NAME TAXA SORT	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Abagpies Strigidae Owls ER YGII) FAMILY (SCIENTIFIC) FAMILY (COMMON)	GS Species Occu Fatton, Fergu Mccone, McKe Sanders, Sher State Rank Re and grazing, GS Species Occu Gallatin, Glac Petroleum, Pl GS Species Occu Gallatin, Glac Petroleum, Pl GS Species Occu Lincoln, Mean	sagnancers Still S3 Frences verified, Flathead, Gall Frences verified Still	In these Countain, Sariald. Countain, Sariald. Countain, Stillwater, Sweeding population in these Countain these Countain Powder River, P	ter. Sweet Grass. It lies: Beaverhead, B liacier, Golden Valt a, Musselshell, Park ret Grass, Teton. Tr n size, evidence of lies: Beaverhead, B lerson, Judith Basin owell, Ravalli, San.	Lincoln, Madison. Melon, Wheatland g Horn, Blaine, Brot- g Horn, Blaine, Brot- g Horn, Blaine, Petroleum, Philip easure, Valley, Whe recent declines, and g Horn, Dlaine, Brot- Lake, Lewis and CL est, Silver Bow, Stil SENSITIVE arbon, Deer Lodge, 1	agher, Mineral, Mis- SGCN3 dwater, Carbon, Ca. I. Hill, Jefferson, Juc. S. Pondera, Powder F atland, Wibaux, Yell declining regenerat idectining regenerat Company Carbon, Cal ark, Liberty, Lincoln twater, Sweet Grass SGCN3, SGIN lathead, Gallatin, Coestland	coula, Park, Petrol 3% tter, Cascade, Che fish Basin, Lake, Li tiver, Powell, Prai owstone fon of riparian cot 9% ter, Cascade, Che , Madizan, Meaghe , Teton, Toole, WI 2% cranite, Jefferson,	100% outeau. Custer, Dr. ewis and Clark, Li rie. Ravalli, Richl tonwood forests o 84% 84% buteau, Deer Lodg rr. Mineral, Missor egatland 46% Judith Basin, Lak	Riparian forest awan, Deer Lodge, liberty, Lincoln, Anadisor and, Roosevelt, Rosebu due to altered hydrolog Conifer forest e, Fergus, Flathead, ula, Mussethell, Park, Conifer forest near open meadows e, Lewis and Clark.
ucifraga olumbiana Clark's Nutcracker trix nebulosa Great Gray Owl FISH (ACTINOPT) CLENTIFIC NAME COMMON NAME TAXA SORT INCORPORT	Bitterns / Egrets / Herons / Night-Herons / Night-Herons / Oravidae Jays / Crows / Magpies Strigidae Owls - FAMILY (SCIENTIFIC) FAMILY (COMMON) Salmonidae	GS Species Occu Fatton, Fergur Mccone, McKe Sanders, Sher State Rank Re and grazing. GS Species Occu Gatlatin, Glac Petroleum, Pi GS Species Occu Lincoln, Mean	sa, sancers. Still Sa Sa Sarrences verified icr., Gather Same Sancers. Still Sa Sarrences verified icr., Golden Valte illitips. Pondera. Sa	In these Countries of the second state of the second state of the second	ter. Sweet Grass. I J. Sies: Beaverhead. B slacier. Golden Vall Siacier. Golden Vall Street Grass, Teton. Tr. n size, evidence of lies: Beaverhead. B serson, Judith Basin owell, Ravalli, San. Jes: Beaverhead. C sles: Beaverhead. C slit. Silver Bow. Sweet Grays. Swe	Lincoln, Madison. Meatland g Horn, Blaine. Broze g Horn, Blaine. Broze g Horn, Blaine. Harding Petroleum, Phillip easure, Valley. Whe recent declines. and g Horn. Blaine, Broz Lake, Lewis and Cl lers, Silver Bov, Stil SENSITIVE arbon. Deer Lodge, i eet Grass, Teton, Wi	agher, Mineral, Mis- SGCN3 Idwater, Carbon, Ca Hill, Jefferson, Jud Pondera, Powder in Addam, Yell declining regenerat SGCN3 Idwater, Carbon, Ca ark, Liberty, Lincoln Water, Sweet Gran SGCN3, SGIN Tathead, Gallatin, C neatland	coula, Park, Petrol 3% rter, Cascade, Ch. lith Basin, Lat. lither, Powell, Prai ovistone foon of riparian cot 9% rter, Cascade, Cho, Madison, Meaghe Teton, Toole, WI 2% canite, Jefferson, ISHIP = 002N013 SOF GLOBAL BREEDING	100% Duteau. Custer, Dr ewis and Clark, Li rie, Ravalli, Richi Lonwood forests of 84% Utteau, Deer Lodg r. Mineral, Misson eatland 46% Judith Basin, Lak 8W / Based on ma % OF MT THAT IS BREEDING	Riparian forest awson, Deer Lodge. Beetry, Lincoln, Madisor and, Roosevelt, Rosebu due to altered hydrolog Conifer forest te, Fergus, Flathead, ula, Musselshell, Park, Conifer forest near open meadows te, Lewis and Clark. 2 SPECIL apped Species Occurrenc HABITAT Mountain streams,
Great Blue Heron Ucifraga olumbiana Llark's Nutcracker trix nebulosa Freat Gray Owl FISH (ACTINOPT) CIENTIFIC NAME COMMON NAME TAXA SORT	Bitterns / Egrets / Herons / Night-Herons Corvidae Jays / Crows / Abagpies Strigidae Owls ER YGII) FAMILY (SCIENTIFIC) FAMILY (COMMON)	GS Species Occu Fatton, Fergu Mccone, McKe Sanders, Sher State Rank Re and grazing. GS Species Occu Gallatin, Glac Petroleum, PI Species Occu Lincoln, Mean	sagnaers: Sittle Sagnaers: Small bre Sagnaers: Small bre Sagnaers: Small bre Sagnaers: Sagnaer	In these Countries of the Countries of t	ter. Sweet Grass. I	Lincoln, Madison. Meatland g Horn, Blaine. Dro: y, Granke. Harding Petroleum, Philip recent declines, and g Horn. Dlaine, Broc. Lake, Lewis and Cl ars, Silver Bow, Stil SENSITIVE BLM SENSITIVE BLM SENSITIVE	sagher, Mineral, Missagher, Mineral, Missagher, Carbon, Ca, Hill, Jafferson, Jus, Pondera, Powder F, atland. Wibaux, Yell declining regenerat Govern, Carbon, Ca, and Jank, Liberty, Lincoln Invator, Sweet Grass SGCN3, SGIN Tathead, Gallatin, Coestland TOWN FWP SWAP SGCN2	coula, Park, Petrol 3% tter, Cascade, Che ith Basin, Lake, Li tiver, Powell, Prai owstone ion of riparian cot 9% tter, Cascade, Che , Madizan, Aveghe Teton, Toole, WI 2% tranite, Jefferson, JSHIP = 002N013 % OF GLOBAL BREEDING RANGE IN MT	100% outeau. Custer, Dr cwis and Clark, Li rie. Ravalli, Richl Lonwood forests o 84% outeau, Deer Lodg rr. Minerol. Missor eatland 46% Judith Basin. Lak W Ibased on ma S OF MITHAT IS BREEDING RANGE 34%	Riparian forest awan, Daer Lodge, liberty, Lincoln, Madisor and, Roosevelt, Rosebu due to altered hydrolog Conifer forest le, Fergus, Flathead, Lonifer forest near open meadows le, Lewis and Clark. 2 SPECIE Apped Species Occurrence HABITAT Mountain streams, cluss; alexe
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ucifraga olumbiana clark's Nutcracker crix nebulosa Great Gray Owl CIENTIFIC NAME COMMON NAME TAXA SORT ncorhynchus arkii lewisi zestslope Cutthroat rout nymallus arcticus	Bitterns / Egrets / Herons / Night-Herons / Night-H	GS Species Occur Fatton, Fergur Mccone, McKe Sanders, Sher State Rank Re and grazing. GS Species Occu Gallatin, Glac Petroleum, Pf GS Species Occur Lincoln, Mean GLOBAL RANK G4T3 Species Occur Judith Easin, L GS	Sagnaers: Still Sagnaers: Small bre Sagnaers: Small bre Sagnaers: Small bre Sagnaers: Sagnaers	In these Count the	ter. Sweet Grass. I Ites: Beaverhead. B Ites: Beaverhead. C Ites: Beaverhead. B Ites: B	Lincoln, Madison. Meatland g Horn, Blaine. Broze y, Granke. Harding Petroleum, Philip gasure, Valley. Whe recent declines, and g Horn. Blaine, Broz. Lake, Lewis and Cl ers, Silver Bow, Skil SENSITIVE arbon. Deer Lodge, i et Grass, Teton. Wi BLM SENSITIVE oadwater. Cascade, sineral. Missoula, Pe SENSITIVE	SGCN3 SG	coula, Park, Petrol 3% tter, Cascade, Che itih Basin, Lale, Li tiver, Powell, Prai ovstone 19% ter, Cascade, Che 9% ter, Cascade, Che 9% ter, Cascade, Che 2% cranite, Jefferson, VSHIP = 002N013 % OF GLOBAL BREEDING RANGE IN MT	100% Duteau. Custer, Drewis and Clark, Lirie, Ravalli, Richl tonwood forests of uteau, Deer Lodg rr, Mineral, Missor teatland 46% Judith Basin, Lak W Ibased on ma % OF MT THAT IS BREEDING RANGE 34%	Riparlan forest Awan, Deer Lodge. Betry, Lincoln, Madiso. Bady, Rosebud due to attered hydralog Conifer forest te, Forgur, Flathend, Ula, Musselshell, Park, Conifer forest near open meadows te, Lewis and Clark. 2 SPECIE Apped Species Occurrence HABITAT Mountain streams, rivers, lakes tier, Granite, Jefferson, Wheatland
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Potential Species of Concern

Special Status Species

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Additions To Statewide List

Species Removed From Statewide List

Species of Greatest Inventory Need

Natural Heritage Program

Montana Natural Heritage - SOC Report

Plant Species of Concerts ecles List Last Updated 05/03/2016

1 Species of Concern - Species Occurrences are not maintained for Animal PSOC, therefore we cannot filter these species geographically Filtered by the following criteria:

Township = 002N013W (based on mapped Species Occurrences)

A program of the Montana State Library's Natural Resource Information System operated by the University of Montana.

Expand All | Collapse All

Introduction

Species of Concern

Species or Co 1 Species Filtered by the follo Township = DOZNO13	wing criteria:	Species Occurrences)							
FLOWERING PLA	NTS - DICOTS (/	MAGNOLIOPSIDA)						**************************************	1 SPECIES
		•					TOWNSHIP = 00	02N013W (based (on mapped Species Occurrences
SCIENTIFIC NAME COMMON NAME TAXA SORT	OTHER NAMES	FAMILY (SCIENTIFIC) FAMILY (COMMON)	GLOBAL RANK	STATE RANK	USFW5	USFS	8LM	MNPS THREAT	T HABITAT
Penstemon		Plantaginaceae	G3	53		SENSITIVE	ſ	2	Sagebrush-grasslands
lemhiensis Lemhi Beardtongue		Plantain Family	State Rank Rea numerous occu Counties in Moi individual plans lands supportin conditions and to populations	ison: Penstemon rences in Beave itana, but most is based on recei ig the majority of fire suppression, are occurring fro impacts the spe-	lembiensis is a rhead and Raval are small to moon survey efforts f the occurrence both of which a m noxious weed cies. Several occurs.	ii Counties with a fe ferate in size. The m . Plants occur on a n es. The species is pri tre believed to have i invasion, primarily s currences are found a	at occurs only in so we additional occurs uniber of plants in in hix of federal, state marily sensitive to played a significan- spotted knapweed;	uthwest Montana an rences located in De Montana is estimate and private owner: negative impacts ass t role in the species in the Bitterroot reg in the Bitterroot reg	nd adjacent Idaho. There are er Lodge and Silver Bow d at approximately 10.000 ships with Hational Forest sociated with drought. decline. Additional impacts from. Heavy livestock grazing impacted by activities

associated with road construction, maintenance and use.

Potential Species of Concern

Special Status Species

Additions To Statewide List

Species Removed From Statewide List

Citation for data on this website:

Montana Plant Species of Concern Report - Montana Natural Heritage Program. Rotrieved on 12/13/2016 from http://minho.org/Species/DiConsgra/(Acr)Pap



